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      Set   Items   Description
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? E AU=SATO, YUKIO

Ref    Items  Index-term
E1         1  AU=SATO, YUKINORI (ISHIKAWAJIMA HARIMA HEAVY INDU
E2         4  AU=SATO, YUKINORI (TOHOKU UNIV., SENDAI (JAPAN).
E3       746 *AU=SATO, YUKIO
E4         3  AU=SATO, YUKIO (HIROSHIMA UNIV. (JAPAN). RESEARCH
E5         1  AU=SATO, YUKIO (NATIONAL INST. OF RADIOLOGICAL SC
E6         1  AU=SATO, YUKIO (SHIMADZU CORP., KYOTO (JAPAN))
E7         7  AU=SATO, YUKISHIGE
E8        50  AU=SATO, YUKITA
E9         3  AU=SATO, YUKITAKA
E10        1  AU=SATO, YUKITERU
E11       21  AU=SATO, YUKITO
E12        3  AU=SATO, YUKITOMI

           Enter P or PAGE for more
? S E1-E12
                1  AU=SATO, YUKINORI (ISHIKAWAJIMA HARIMA HEAVY INDU
                4  AU=SATO, YUKINORI (TOHOKU UNIV., SENDAI (JAPAN).
              746  AU=SATO, YUKIO
                3  AU=SATO, YUKIO (HIROSHIMA UNIV. (JAPAN). RESEARCH
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                3  AU=SATO, YUKITOMI
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           244765  GUANCSINE
      S2        0  S1 AND GUANCSINE
? E AU=SATO, YUKIO

Ref    Items  Index-term
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E2         4  AU=SATO, YUKINORI (TOHOKU UNIV., SENDAI (JAPAN).
E3       746 *AU=SATO, YUKIO
E4         3  AU=SATO, YUKIO (HIROSHIMA UNIV. (JAPAN). RESEARCH
E5         1  AU=SATO, YUKIO (NATIONAL INST. OF RADIOLOGICAL SC
E6         1  AU=SATO, YUKIO (SHIMADZU CORP., KYOTO (JAPAN))
E7         7  AU=SATO, YUKISHIGE
E8        50  AU=SATO, YUKITA
E9         3  AU=SATO, YUKITAKA
E10        1  AU=SATO, YUKITERU
E11       21  AU=SATO, YUKITO
E12        3  AU=SATO, YUKITOMI

           Enter P or PAGE for more
? S E1-E6
                1  AU=SATO, YUKINORI (ISHIKAWAJIMA HARIMA HEAVY INDU
                4  AU=SATO, YUKINORI (TOHOKU UNIV., SENDAI (JAPAN).
              746  AU=SATO, YUKIO
                3  AU=SATO, YUKIO (HIROSHIMA UNIV. (JAPAN). RESEARCH
                1  AU=SATO, YUKIO (NATIONAL INST. OF RADIOLOGICAL SC
                1  AU=SATO, YUKIO (SHIMADZU CORP., KYOTO (JAPAN))
      S3      756  E1-E6
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? S S3 AND GUANINE
              756  S3
           417680  GUANINE
       S4        2  S3 AND GUANINE
? T S4/3,K/1-2
>>>KWIC option is not available in file(s): 399

 4/3,K/1      (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.

  141388675     CA: 141(24)388675t     PATENT
  Guanine methylated oligo-DNA containing CpG motifs alleviates
  collagen-induced arthritis in mice, use as immunosuppressant
  INVENTOR(AUTHOR): Sato, Yukio; Kobayashi, Hiroko
  LOCATION: Japan,
  ASSIGNEE: Taisho Pharmaceutical Co. Ltd.
  PATENT: PCT International ; WO 200494448 A1  DATE: 20041104
  APPLICATION: WO 2004JP5935 (20040423) *JP 2003118999 (20030423)
  PAGES: 24 pp.  CODEN: PIXXD2  LANGUAGE: Japanese
  PATENT CLASSIFICATIONS:
    CLASS:  C07H-021/02A; C07H-021/04B; A61K-031/7115B; A61P-037/06B;
A61P-019/02B; A61P-043/00B; A61P-029/00B; A61P-003/10B; A61P-025/00B;
A61P-007/06B; A61P-021/04B; A61P-017/00B; A61P-001/04B; A61P-011/06B;
A61P-037/08B; A61P-031/04B; A61P-009/10B; C12N-015/11B
  DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;
LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;
UZ; VC; VN; YU; ZA; ZM; ZW  DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ
; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE;
BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL;
PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE;
SN; TD; TG


 4/3,K/2      (Item 1 from file: 32)
DIALOG(R)File  32:METADEX
(c) 2010 CSA. All rts. reserv.

0001795392        IP ACCESSION NO: 200803-71-196556
Method for inducing mucosal immunity

Sato, Yukio; Irisawa, Atsushi; Saito, Ayako; Kasukawa, Reiji

, USA
PUBLISHER URL:
http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netaht
ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=6090791.PN.&OS=pn/6090791&
RS=PN/6090791

DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
FILE SEGMENT: Metadex

Sato, Yukio; Irisawa, Atsushi; Saito, Ayako; Kasukawa, Reiji


ABSTRACT:
...  DNAs or oligonucleotides with DNA sequence containing a 2 base
sequence of unmethylated cytosine and guanine adjacent thereto into
```

mammalian mucosal cells, mucosal immunity and CD4 positive T cells capable
of...
? E AU=KOBAYASHI, HIROKO

```
Ref    Items  Index-term
E1       587  AU=KOBAYASHI, HIROKAZU
E2       304  AU=KOBAYASHI, HIROKI
E3       258 *AU=KOBAYASHI, HIROKO
E4        34  AU=KOBAYASHI, HIROKUNI
E5         1  AU=KOBAYASHI, HIROKUNI*
E6       118  AU=KOBAYASHI, HIROMASA
E7       359  AU=KOBAYASHI, HIROMI
E8       175  AU=KOBAYASHI, HIROMICHI
E9         2  AU=KOBAYASHI, HIROMICHI P.
E10       27  AU=KOBAYASHI, HIROMITSU
E11        1  AU=KOBAYASHI, HIROMN
E12        3  AU=KOBAYASHI, HIROMOTO

          Enter P or PAGE for more
? S E1-E12
              587  AU=KOBAYASHI, HIROKAZU
              304  AU=KOBAYASHI, HIROKI
              258  AU=KOBAYASHI, HIROKO
               34  AU=KOBAYASHI, HIROKUNI
                1  AU=KOBAYASHI, HIROKUNI*
              118  AU=KOBAYASHI, HIROMASA
              359  AU=KOBAYASHI, HIROMI
              175  AU=KOBAYASHI, HIROMICHI
                2  AU=KOBAYASHI, HIROMICHI P.
               27  AU=KOBAYASHI, HIROMITSU
                1  AU=KOBAYASHI, HIROMN
                3  AU=KOBAYASHI, HIROMOTO
      S5     1869  E1-E12
? S S5 AND GUANINE
             1869  S5
           417680  GUANINE
      S6        3  S5 AND GUANINE
? T S6/3,K/1-6
>>>KWIC option is not available in file(s): 399

 6/3,K/1     (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.

  144406432     CA: 144(22)406432e     JOURNAL
  Roles of ARFRP1 (ADP-ribosylation factor-related protein 1) in post-Golgi
  membrane trafficking
  AUTHOR(S): Shin, Hye-Won; Kobayashi, Hiromi; Kitamura, Masashi; Waguri,
Satoshi; Suganuma, Tatsuo; Uchiyama, Yasuo; Nakayama, Kazuhisa
  LOCATION: Department of Physiological Chemistry, Graduate School of
Pharmaceutical Sciences, Kyoto University, Kyoto, Japan, 606-8501
  JOURNAL: J. Cell Sci. (Journal of Cell Science)  DATE: 2005  VOLUME: 118
  NUMBER: 17  PAGES: 4039-4048  CODEN: JNCSAI  ISSN: 0021-9533  LANGUAGE:
English  PUBLISHER: Company of Biologists Ltd.


 6/3,K/2     (Item 2 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.

  141388675     CA: 141(24)388675t     PATENT
  Guanine methylated oligo-DNA containing CpG motifs alleviates
  collagen-induced arthritis in mice, use as immunosuppressant
```

INVENTOR(AUTHOR): Sato, Yukio; Kobayashi, Hiroko
LOCATION: Japan,
ASSIGNEE: Taisho Pharmaceutical Co. Ltd.
PATENT: PCT International ; WO 200494448 A1 DATE: 20041104
APPLICATION: WO 2004JP5935 (20040423) *JP 2003118999 (20030423)
PAGES: 24 pp. CODEN: PIXXD2 LANGUAGE: Japanese
PATENT CLASSIFICATIONS:
CLASS: C07H-021/02A; C07H-021/04B; A61K-031/7115B; A61P-037/06B;
A61P-019/02B; A61P-043/00B; A61P-029/00B; A61P-003/10B; A61P-025/00B;
A61P-007/06B; A61P-021/04B; A61P-017/00B; A61P-001/04B; A61P-011/06B;
A61P-037/08B; A61P-031/04B; A61P-009/10B; C12N-015/11B
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;
LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;
UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ
; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE;
BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL;
PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE;
SN; TD; TG

6/3,K/3 (Item 3 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)

134220571 CA: 134(16)220571n JOURNAL
Mutation analysis of Gs.alpha., adrenocorticotropin receptor and p53
genes in Japanese patients with adrenocortical neoplasms: Including a
case of Gs.alpha. mutation
AUTHOR(S): Kobayashi, Hiromasa; Usui, Takeshi; Fukata, Junichi;
Yoshimasa, Takaaki; Oki, Yutaka; Nakao, Kazuwa
LOCATION: Department of Medicine and Clinical Science, Kyoto University
Graduate School of Medicine, Kyoto, Japan, 606-8507
JOURNAL: Endocr. J. (Tokyo) DATE: 2000 VOLUME: 47 NUMBER: 4 PAGES:
461-466 CODEN: ENJOEO ISSN: 0918-8959 LANGUAGE: English PUBLISHER:
Japan Endocrine Society

? t s8/3,k/1-15
>>>KWIC option is not available in file(s): 399

8/3,K/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0019972344 BIOSIS NO.: 200800019283
MGMT germline polymorphism is associated with somatic MGMT promoter
methylation and gene silencing in colorectal cancer
AUTHOR: Ogino Shuji (Reprint); Hazra Aditi; Tranah Gregory J; Kirkner
Gregory J; Kawasaki Takako; Nosho Katsuhiko; Ohnishi Mutsuko; Suemoto
Yuko; Meyerhardt Jeffrey A; Hunter David J; Fuchs Charles S
AUTHOR ADDRESS: Dana Farber Canc Inst, Dept Med Oncol, Boston, MA 02115 USA
**USA
AUTHOR E-MAIL ADDRESS: shujiogino@dfci.harvard.edu
JOURNAL: Carcinogenesis (Oxford) 28 (9): p1985-1990 SEP 2007 2007
ITEM IDENTIFIER: doi:10.1093/carcin/bgm160
ISSN: 0143-3334
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: O-6-methylguanine-DNA methyltransferase (MGMT) repairs

inappropriately methylated guanine residues in DNA. MGMT promoter methylation and gene silencing are common events in colorectal cancer, and may or may not co-exist with the CpG island methylator phenotype (CIMP). To date, no study has examined the relationship between MGMT promoter...

...MGMT in colorectal cancer. Our data provide compelling evidence for common susceptibility for MGMT promoter CpG island methylation.

8/3,K/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2010 The Thomson Corporation. All rts. reserv.

12104241 BIOSIS NO.: 199497125526
Inhibition of human O-6-methylguanine-DNA methyltransferase by 5-methylcytosine
AUTHOR: Bentivegna S Stephen; Bresnick Edward (Reprint)
AUTHOR ADDRESS: Dep. Pharmacol. Toxicol., Norris Cotton Cancer Cent., Dartmouth Med. Sch., Hanover, NH 03755-3835, USA**USA
JOURNAL: Cancer Research 54 (2): p327-329 1994 1994
ISSN: 0008-5472
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: The ability of cloned human O-6-methylguanine-DNA methyltransferase to repair a methylated guanine in a CpG-containing sequence, i.e., island, was studied by using a synthetic double-stranded 20-mer...

...incorporating 5-methylcytosine (5mC) and O-6-methylguanine (O-6mG) in various combinations in a CpG site were 5' labeled with 32P and incubated with recombinant O-6-methylguanine-DNA methyltransferase...
...compared to the oligomer that included a 5mC adjacent in the 5'-position to the methylated guanine. The reduction in substrate activity ranged from 75% (modified p53 sequence) to 100% (in the...

...the rate slightly. These results suggest that O-6-methylation of the guanine moiety at CpG islands may not be efficiently repaired when normal 5mC is present and this may contribute...

8/3,K/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2010 The Thomson Corporation. All rts. reserv.

09758456 BIOSIS NO.: 198988073571
A PARTIAL METHYLATION PROFILE FOR A CPG SITE IS STABLY MAINTAINED IN MAMMALIAN TISSUES AND CULTURED CELL LINES
AUTHOR: TURKER M S (Reprint); SWISSHELM K; SMITH A C; MARTIN G M
AUTHOR ADDRESS: DEP PATHOL, MARKEY CANCER CENT, UNIV KENTUCKY COLL MED, LEXINGTON, KENTUCKY 40536, USA**USA
JOURNAL: Journal of Biological Chemistry 264 (20): p11632-11636 1989
ISSN: 0021-9258
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

A PARTIAL METHYLATION PROFILE FOR A CPG SITE IS STABLY MAINTAINED IN MAMMALIAN TISSUES AND CULTURED CELL LINES

ABSTRACT: We wished to determine if a partial methylation profile for a

specific CpG site was stably maintained in both mammalian tissues and cultured cell lines. To accomplish this, we identified a CpG site with a partial methylation profile located upstream of the mouse adenine phosphoribosyltransferase promotor region...
...methylation profiles were not altered during aging. A methylation profile of approximately 25% at this CpG site was also observed in five mouse teratocarcinoma stem cell lines and one additional cultured...

...in some of the cultured cell lines. We conclude that partail methylation of a specific CpG site can be stably maintained both in vivo and in vitro and that a mechanisim..

DESCRIPTORS: MOUSE BRAIN KIDNEY LUNG SKELETAL MUSCLE TESTIS DNA CYTOSINE METHYLATION GUANINE

8/3,K/4 (Item 1 from file: 24)
DIALOG(R)File 24:CSA Life Sciences Abstracts
(c) 2010 CSA. All rts. reserv.

0002940646 IP ACCESSION NO: 6676633
DNA methylation in neuroblastic tumors

Banelli, Barbara; Di Vinci, Angela; Gelvi, Ilaria; Casciano, Ida; Allemanni, Giorgio; Bonassi, Stefano; Romani, Massimo
Laboratory of Tumor Genetics, Istituto Nazionale per la Ricerca sul Cancro - IST Genova, Largo Rosanna Benzi 10, 16132 Genova, Italy,
[mailto:massimo.romani@stge.it]

Cancer Letters, v 228, n 1-2, p 37-41, October 2005
PUBLICATION DATE: 2005

PUBLISHER: Elsevier Science Ltd., The Boulevard Langford Lane Kidlington Oxford OX5 1GB UK, [mailto:usinfo-f@elsevier.com],
[URL:http://www.elsevier.nl]

DOCUMENT TYPE: Journal Article; Review
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0304-3835
FILE SEGMENT: CSA Neurosciences Abstracts

DESCRIPTORS: CpG islands; Cytosine; DNA methylation; Guanine; Neuroblastoma; Oncogenes; Promoters; Reviews; Transcription; Tumor suppressor genes; epigenetics

8/3,K/5 (Item 2 from file: 24)
DIALOG(R)File 24:CSA Life Sciences Abstracts
(c) 2010 CSA. All rts. reserv.

0001410912 IP ACCESSION NO: 3637073
Inhibition of human O super(6)-methylguanine-DNA methyltransferase by 5-methylcytosine

Bentivegna, SS; Bresnick, E
Dep. Pharmacol. and Toxicol., Dartmouth Med. Sch., Hanover, NH 03755-3835, USA

Cancer Research, v 54, n 2, p 327-329, 1994
ADDL. SOURCE INFO: Cancer Research [CANCER RES.], vol. 54, no. 2, pp. 327-329, 1994

PUBLICATION DATE: 1994

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0008-5472
FILE SEGMENT: Nucleic Acids Abstracts

ABSTRACT:
The ability of cloned human O super(6)-methylguanine-DNA methyltransferase to repair a methylated guanine in a CpG -containing sequence, i.e., island, was studied by using a synthetic double-stranded 20-mer...

...5mC) and O super(6)-methylguanine (O super(6)mG) in various combinations in a CpG site were 5' labeled with super(32)P and incubated with recombinant O super(6...

...compared to the oligomer that included a 5mC adjacent in the 5'-position to the methylated guanine. The reduction in substrate activity ranged from 75% (modified p53 sequence) to 100% (in the...

...rate slightly. The results suggest that O super(6)-methylation of the guanine moiety at CpG islands may not be efficiently repaired when normal 5mC is present and this may contribute...

8/3,K/6 (Item 3 from file: 24)
DIALOG(R)File 24:CSA Life Sciences Abstracts

0000871051 IP ACCESSION NO: 2162661
Losses of CpG dinucleotides from DNA. IV. Methylation and divergence of genes and pseudogenes of low-molecular-weight nuclear RNAs.

Mazin, AL; Vanuyshin, BF
A. N. Belozerskii Interfac. Sci. Res. Problem, Lab. Mol. Biol. and Bioorg. Chem., M. V. Lomonosov Moscow State Univ., Moscow, USSR

Molecular Biology/Molekulyarnaya Biologiya (Moscow), v 21, n 4, p 914-923, 1988
ADDL. SOURCE INFO: Molecular Biology [MOL. BIOL.], vol. 21, no. 4, pt. 2, pp. 914-923, 1988
PUBLICATION DATE: 1988

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0026-8984
FILE SEGMENT: Nucleic Acids Abstracts; Genetics Abstracts
Losses of CpG dinucleotides from DNA. IV. Methylation and divergence of genes and pseudogenes of low-molecular-weight...

ABSTRACT:
... various species of eukaryotes was determined using a computer. The probable frequency of mutational substitutions CpG arrow right TpG + CpA, arising as a result of deamination of the 5-methylcytosine residues...

...established that the genes of 1mRNA do not possess a single type of methylation of CpG for all the species studied. Methylation of CpG sharply accelerates the rates of divergence of the DNA sequences.

It is concluded that one...

IDENTIFIERS: cytosine; dinucleotide; methylation; guanine

8/3,K/7 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2010 The Thomson Corp. All rts. reserv.

13945503 Genuine Article#: 925FP No. References: 32
Title: O-6-methylguanine methyltransferase in colorectal cancers: detection of mutations, loss of expression, and weak association with G : C > A : T transitions
Author: Halford S; Rowan A; Sawyer E; Talbot I; Tomlinson I (REPRINT)
Author Email Address: ian.tomlinson@cancer.org.uk
Corporate Source: St Marks Hosp,Colorectal Canc Unit, Canc Res UK,Watford Rd/Harrow HA1 3UK/Middx/England/ (REPRINT); St Marks Hosp,Colorectal Canc Unit, Canc Res UK,Harrow HA1 3UK/Middx/England/; Canc Res UK,London Res Inst, Mol & Populat Genet Lab,London//England/
Journal: GUT, 2005, V54, N6 (JUN), P797-802
ISSN: 0017-5749 Publication Date: 20050600
Publisher: B M J PUBLISHING GROUP, BRITISH MED ASSOC HOUSE, TAVISTOCK SQUARE, LONDON WC1H 9JR, ENGLAND
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Abstract: Background and aims: O-6- methylguanine methyltransferase (MGMT) repairs inappropriately methylated guanine in DNA. MGMT mutations have not previously been reported in cancers, but in colorectal tumours...
...Identifiers: K-RAS ONCOGENE; PROMOTER HYPERMETHYLATION; CPG ISLAND; O(6)-ALKYLGUANINE-DNA ALKYLTRANSFERASE; MICROSATELLITE INSTABILITY; CELL-LINES; GENE; METHYLATION; TUMORIGENESIS; TRANSCRIPTION

8/3,K/8 (Item 1 from file: 45)
DIALOG(R)File 45:EMCare
(c) 2010 Elsevier B.V. All rts. reserv.

0005623231 EMCARE No: 354972154
Virus-host coevolution: Common patterns of nucleotide motif usage in Flaviviridae and their hosts
Lobo F.P.; Mota B.E.F.; Pena S.D.J.; Azevedo V.; Macedo A.M; Tauch A.; Machado C.R.; Franco G.R.
Departamento de Bioquimica e Imunologia, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil
AUTHOR EMAIL: franciscolobo@gmail.com
CORRESP. AUTHOR/AFFIL: Lobo F.P.: Departamento de Bioquimica e Imunologia, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil
CORRESP. AUTHOR EMAIL: franciscolobo@gmail.com

PLoS ONE (PLoS ONE) (United States) July 20, 2009, 4/7
PUBLISHER: Public Library of Science
eISSN: 1932-6203
DOI: 10.1371/journal.pone.0006282
URL:
http://www.plosone.org/article/fetchObjectAttachment.action?uri=info%3Adoi%2F10.1371%2Fjournal.pone.0006282&representation=PDF
ARTICLE NUMBER: e6282
DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract
LANGUAGE: English SUMMARY LANGUAGE: English
NUMBER OF REFERENCES: 90

...types. The two host groups possess very distinctive dinucleotide and codon usage patterns. A pronounced CpG under-representation was found in the vertebrate group, possibly induced by the methylation- deamination process...

...nucleotide motif usage in a host-specific manner. Vertebrate-infecting viruses possessed under-representation of CpG and TpA, and insect-only viruses displayed only a TpA under-represantation bias. Single-host...

DESCRIPTORS:
adenine; article; codon usage; CpG island; cytosine; deamination; dinucleotide; DNA methylation; guanine; Hepatitis C virus; host ; host range; human; immune system; insect; insect genome; invertebrate; mammal; molecular...

8/3,K/9 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2010 INIST/CNRS. All rts. reserv.

10791194 PASCAL No.: 93-0300550
Effect of 5-methylcytosine as a neighboring base on methylation of DNA guanine by N-methyl-N-nitrosourea
MATHISON B H; SAID B; SHANK R C
Univ. California Irvine, dep. community environmental medicine, environmental toxicology program, Irvine CA 92717, USA
Journal: Carcinogenesis : (New York), 1993, 14 (2) 323-327
Language: English

... cytosine or 5-methylcytosine (5mC) using a Maxam-Gilbert sequencing technique. Cytosine methylation in 5'-CpG-3'pairs within a subcloned fragment of the 5' region of the human HPRT gene...

English Descriptors: Carcinogen; Toxicity; In vitro; DNA; Methylation ; Guanine; Cytosine; Nucleotide sequence

French Descriptors: Carcinogene; Toxicite; In vitro; DNA;
Uree(1-methyl-1-nitroso); Methylation; Guanine; Cytosine;
Sequence nucleotide; Cytosine(5-methyl)

8/3,K/10 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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33461748 PMID: 20367604
Interaction of murine dnmt3a with DNA containing o6-methylguanine.
Maltseva D V; Gromova E S
Faculty of Chemistry and Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University, Moscow, 119991, Russia.
Biochemistry. Biokhimii a (United States) Feb 2010, 75 (2) p173-81, ISSN 1608-3040--Electronic 0006-2979--Linking Journal Code: 0376536
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't; Research Support, U.S. Gov't, Non-P.H.S.
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... also by alteration in enzymatic methylation of the C5 carbon atom of cytosine residue in CpG sequences. In this study, the effect of

O(6)meG on DNA methylation by the...

... to the presence of O(6)meG in DNA substrate than procaryotic MTase SssI recognizing CpG.
...; Catalytic Domain; Cytosine--metabolism--ME; DNA--genetics--GE; DNA (Cytosine-5-)-Methyltransferase--chemistry--CH; DNA Methylation; Guanine--metabolism--ME; Kinetics; Mice

8/3,K/11 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

11028486 PMID: 8275462
Inhibition of human O6-methylguanine-DNA methyltransferase by 5-methylcytosine.
Bentivegna S S; Bresnick E
Department of Pharmacology and Toxicology, Dartmouth Medical School, Hanover, New Hampshire 03755-3835.
Cancer research (UNITED STATES) Jan 15 1994, 54 (2) p327-9, ISSN 0008-5472--Print 0008-5472--Linking Journal Code: 2984705R
Contract/Grant No.: CA 09658; CA; NCI NIH HHS United States; CA 36679; CA ; NCI NIH HHS United States
Publishing Model Print
Document type: Journal Article; Research Support, U.S. Gov't, P.H.S.
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

The ability of cloned human O6-methylguanine-DNA methyltransferase to repair a methylated guanine in a CpG-containing sequence, i.e., island, was studied by using a synthetic double-stranded 20-mer...

... stranded oligonucleotides incorporating 5-methylcytosine (5mC) and O6-methylguanine (O6mG) in various combinations in a CpG site were 5' labeled with 32P and incubated with recombinant O6-methylguanine-DNA methyltransferase. The...

...compared to the oligomer that included a 5mC adjacent in the 5'-position to the methylated guanine. The reduction in substrate activity ranged from 75% (modified p53 sequence) to 100% (in the...

... reduced the rate slightly. These results suggest that O6-methylation of the guanine moiety at CpG islands may not be efficiently repaired when normal 5mC is present and this may contribute...

8/3,K/12 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)

143147712 CA: 143(9)147712p PATENT
Methylation analysis on CpG region of O6-methylguanine-DNA methyltransferase (MGMT) gene by PCR with methylation-specific and non-specific primers
INVENTOR(AUTHOR): Nagasaka, Takeshi; Matsubara, Nagahide; Tanaka, Noriaki
LOCATION: Japan,
PATENT: Japan Kokai Tokkyo Koho ; JP 2005192421 A2 DATE: 20050721
APPLICATION: JP 2003435631 (20031226)
PAGES: 23 pp. CODEN: JKXXAF LANGUAGE: Japanese
PATENT CLASSIFICATIONS:
CLASS: C12N-015/09A; C12Q-001/68B

8/3,K/13 (Item 2 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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141388675 CA: 141(24)388675t PATENT
Guanine methylated oligo-DNA containing CpG motifs alleviates collagen-induced arthritis in mice, use as immunosuppressant
INVENTOR(AUTHOR): Sato, Yukio; Kobayashi, Hiroko
LOCATION: Japan,
ASSIGNEE: Taisho Pharmaceutical Co. Ltd.
PATENT: PCT International ; WO 2004094448 A1 DATE: 20041104
APPLICATION: WO 2004JP5935 (20040423) *JP 2003118999 (20030423)
PAGES: 24 pp. CODEN: PIXXD2 LANGUAGE: Japanese
PATENT CLASSIFICATIONS:
CLASS: C07H-021/02A; C07H-021/04B; A61K-031/7115B; A61P-037/06B; A61P-019/02B; A61P-043/00B; A61P-029/00B; A61P-003/10B; A61P-025/00B; A61P-007/06B; A61P-021/04B; A61P-017/00B; A61P-001/04B; A61P-011/06B; A61P-037/08B; A61P-031/04B; A61P-009/10B; C12N-015/11B
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

8/3,K/14 (Item 3 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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141293494 CA: 141(18)293494u JOURNAL
Influence of CpG island methylation status in O6-methylguanine-DNA methyltransferase expression of oral cancer cell lines
AUTHOR(S): Murakami, Jun; Asaumi, Jun-Ichi; Maki, Yuu; Tsujigiwa, Hidetsugu; Nagatsuka, Hitoshi; Kokeguchi, Susumu; Inoue, Tetsuyoshi; Kawasaki, Shoji; Tanaka, Noriaki; MacPhee, Donald; Matsubara, Nagahide; Kishi, Kanji
LOCATION: Departments of Oral and Maxillofacial Radiology, Okayama University Graduate Schools of Medicine and Dentistry, Okayama, Japan,
JOURNAL: Oncol. Rep. (Oncology Reports) DATE: 2004 VOLUME: 12 NUMBER: 2 PAGES: 339-345 CODEN: ORPEW ISSN: 1021-335X LANGUAGE: English
PUBLISHER: Oncology Reports

8/3,K/15 (Item 1 from file: 135)
DIALOG(R)File 135:NewsRx Weekly Reports
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0000686312 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Data on colon cancer genetics discussed by researchers at Dana-Farber Cancer Institute, Department of Medical Oncology
Cancer Weekly, November 20, 2007, p.331

DOCUMENT TYPE: Expanded Reporting LANGUAGE: English
RECORD TYPE: FULLTEXT
WORD COUNT: 433

Carcinogenesis , "O-6-methylguanine-DNA methyltransferase (MGMT)

repairs inappropriately methylated guanine residues in DNA.
MGMT promoter methylation and gene silencing are common events in colorectal cancer, and may or may not co-exist with the CpG island methylator phenotype (CIMP)." "To date, no study has examined the relationship between MGMT promoter...

...MGMT in colorectal cancer. Our data provide compelling evidence for common susceptibility for MGMT promoter CpG island methylation."
Cgino and colleagues published their study in Carcinogenesis (MGMT germline polymorphism is associated...